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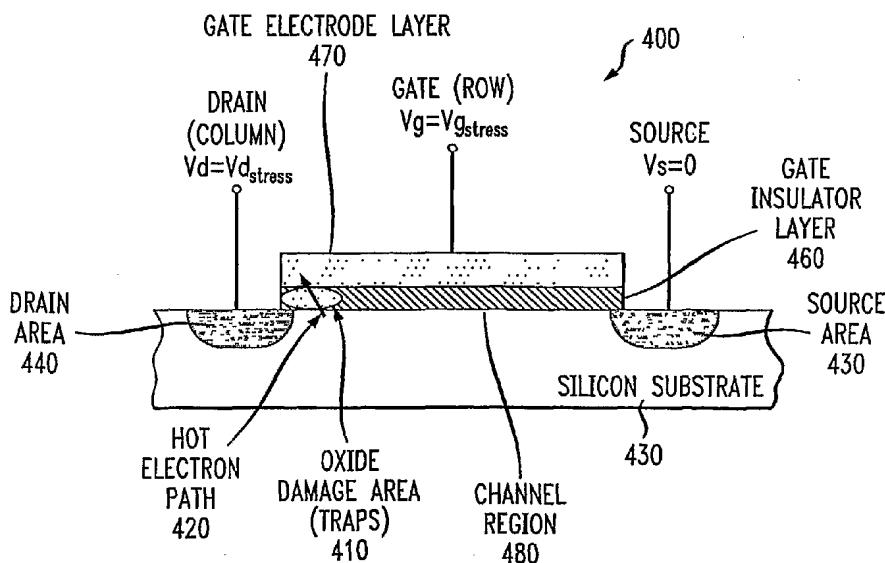
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(54) Title: METHOD AND APPARATUS FOR HOT CARRIER PROGRAMMED ONE TIME PROGRAMMABLE (OTP) MEMORY



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(57) Abstract: One time programmable memory devices are disclosed that are programmed using hot carrier induced degradation to alter one or more transistors characteristics. A one time programmable memory device is comprised of an array of transistors. Transistors in the array are selectively programmed using hot carrier induced changes in one or more transistor characteristics, such as changes to the saturation current, threshold voltage or both, of the transistors. The changes to the transistor characteristics are achieved in a similar manner to known hot carrier transistor aging principles. The disclosed one time programmable memory devices are small and programmable at low voltages and small current.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.